

Montgomery County Public Schools Lead in Drinking Water Testing Report

Walter Johnson High School
6400 Rock Spring Drive
Bethesda, MD 20814

LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	2/27/2020
# of Outlets Tested	65
# of Outlets \geq 5 ppb	0

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

SOURCES OF HUMAN EXPOSURE TO LEAD

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, cosmetics, exposure in the work place and from certain hobbies. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

**Please note that boiling the water will not reduce lead levels.*

ADDITIONAL INFORMATION

1. For additional information, please contact Brian Mullikin, Environmental Team Leader, at 240.740.2324 or brian_a_mullikin@mcpsmd.org.
2. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at www.epa.gov/lead.
3. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.

Please refer to the attachment(s) for additional water sampling information.

Attachment(s) A – Lead in Water Sample Results Table

ATTACHMENT A

Lead in Water Sample Results Table

Sampling Results for Walter Johnson HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW05322	In hallway Close to 129	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05323	In hallway Close to 129	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05324	In work room 128	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05325	In work room 104	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05326	In classroom 158	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05327	In concession 197C	Ice Machine	<1	Pass	N/A	Testing Complete
LW05369	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05370	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05371	In kitchen	Kitchen Sink	1.5	Pass	N/A	Testing Complete
LW05372	In kitchen	Kitchen Sink	1.5	Pass	N/A	Testing Complete
LW05373	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05374	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05375	In break room 170C by cafeteria	Teachers Lounge Sink	1.1	Pass	N/A	Testing Complete
LW05376	In cafeteria next to 170c	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05377	In office 173 by Band	Classroom Sink	2.5	Pass	N/A	Testing Complete
LW05379	In concession 190B across from auditorium	Ice Machine	<1	Pass	N/A	Testing Complete
LW05380	In classroom 166	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05381	In health room 154	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW05382	In work room 151 by office	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW05383	In office 100 by office	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05384	In work room 155C by counselor	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05385	In hallway next to gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05386	In english office 142	Classroom Sink	<1	Pass	N/A	Testing Complete
LW06462	In hallway G85 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06463	In hallway G85 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06464	In Weight room G65 next to	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW06465	In classroom G07	Classroom Sink	<1	Pass	N/A	Testing Complete
LW06472	In classroom G07	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06473	In home economics G02	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW06474	In home economics G02	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW06475	In home economics G02	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW06476	In home economics G02	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW06477	In home economics G02	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW06478	In home economics G02	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW06479	In home economics G02	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW06480	In hallway across from G15C	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06481	In hallway G15C across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06482	In work room G44	Classroom Sink	<1	Pass	N/A	Testing Complete
LW06483	In training room G59	Classroom Sink	<1	Pass	N/A	Testing Complete
LW06484	In work room 244	Teachers Lounge Sink	2.4	Pass	N/A	Testing Complete
LW06485	In hallway 212 right of	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07583	In work room G27	Classroom Sink	<1	Pass	N/A	Testing Complete
M07586	In training room G59	Ice Machine	<1	Pass	N/A	Testing Complete
M07587	In hallway G55 next to G55 Football office	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07588	In hallway G55 next to G55 Football office	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07610	In Weight room G65 next to G65 Weight	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07619	In concession 197C	Classroom Sink	<1	Pass	N/A	Testing Complete
M20409	In kitchen by kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
M20413	In kitchen by kitchen ie. back wall	Kitchen Sink	<1	Pass	N/A	Testing Complete
M20416	In kitchen by kitchen ie. outside wall	Kitchen Sink	<1	Pass	N/A	Testing Complete
M20417	In kitchen by kitchen ie. outside wall	Kitchen Sink	<1	Pass	N/A	Testing Complete
M20421	In kitchen Serving area	Kitchen Sink	1.4	Pass	N/A	Testing Complete
M20424	In work room 160B by media center	Classroom Sink	1.5	Pass	N/A	Testing Complete
M20531	In office G81	Classroom Sink	1.8	Pass	N/A	Testing Complete
M20761	In hallway hall by 235 LTR 1 of 2	Drinking Fountain	<1	Pass	N/A	Testing Complete

M26345	In hallway next to elevator and 261 storage	Drinking Fountain	<1	Pass	N/A	Testing Complete
M26350	In hallway 261 between SBR next to 261 and elevator	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08458	In hallway adjacent to room G15C	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08459	In hallway adjacent to room G55	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08460	In Boy's Locker room G57	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08461	In Girl's locker room G62	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08462	In hallway adjacent to room G65	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08359	In hallway adjacent to gymnasium 199	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08360	In cafeteria adjacent to 170C	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08361	In hallway adjacent to room 119C	Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Walter Johnson High School

6400 Rock Spring Drive

Bethesda, Maryland 20814

Date of Test Report:	3/22/2018
Round of Testing:	Initial
# of Outlets Tested:	51
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	7.7

Project Status:

Initial testing complete: All results less than 20 ppb.



3/22/2018

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
Division of Maintenance
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634186

Location: Walter Johnson High School

6400 Rock Spring Drive
Bethesda, Maryland 20814

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of Initial lead in water testing at Walter Johnson High School, located at 6400 Rock Spring Drive in Bethesda, Maryland 20814.

SCOPE OF SERVICES

KCI conducted lead in water testing at Walter Johnson High School in accordance with the Environmental Protection Agency (EPA) and Maryland House Bill (HB) 270. State regulation established an action level of 20 parts per billion (ppb) to evaluate lead levels in school buildings, a concentration EPA recommends that schools take action to reduce lead below this action level. Maryland requires periodic testing for the presence of lead in drinking water in occupied public and nonpublic school buildings. EPA developed the 3T's (Training, Testing, and Telling) to assist schools in reducing the lead concentrations in their drinking water. More information about 3T's can be found on the EPA website.

KCI visited the site on 2/27/2018 and 2/28/2018 to collect samples from 51 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water - Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07.

Samples were submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

RESULTS

There are no results of the lead in water analysis at or above 20 parts per billion (ppb). The lead in water sample results for sample collection date 2/28/2018 are shown in Attachment A.

DISCUSSION

Lead is a naturally occurring element that can be harmful to humans when ingested or inhaled, particularly to children under the age of six. Lead can adversely affect the development of children's brain potentially leading to detrimental alterations in intelligence and behavior. Lead has been historically used in plumbing, paint and other building materials. Lead is released into the environment from industrial sources and fuel combustion. Lead may also be found in consumer products (imported candy, medicines, toys, dishes, etc.).

Most lead leaches into drinking water from contact with plumbing components such as faucets and valves made of brass or lead-containing solder. The physical and chemical interaction that occurs between the plumbing and water directly contributes to the amount of lead that is released into the water. Although plumbing components installed prior to the 1990's could contain more lead than newer materials, the amount of lead in the drinking water cannot be predicted by the age of building. The purpose of this regulation is to establish a program to minimize the risk of exposure to lead in drinking water outlets at schools.

Simple steps like keeping your home clean and well-maintained will go a long way in preventing lead exposure. These steps include inspecting and maintaining all painted surfaces to prevent paint deterioration, using only cold water to prepare food and drinks, flushing water outlets used for drinking or food preparation, and cleaning around painted areas where friction can generate dust, such as doors, windows, and drawers. Wipe these areas with a wet sponge or rag to remove paint chips or dust, and wash children's hands, bottles, pacifiers and toys often.

Respectfully Submitted,
KCI Technologies, Inc.



Kamau McAbee
MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

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Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for Walter Johnson High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05322		Hallway	Close To Rm 129	Cooler	<1.0	Pass	Testing Complete
LW05323		Hallway	Close To Rm 129	Cooler	<1.0	Pass	Testing Complete
LW05324	128	Work Room		Faucet	2.4	Pass	Testing Complete
LW05325	104	Work Room		Faucet	<1.0	Pass	Testing Complete
LW05326	158	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05327	197C	Concession		Icemaker	<1.0	Pass	Testing Complete
LW05369		Kitchen		Faucet	3.4	Pass	Testing Complete
LW05370		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05371		Kitchen		Faucet	2	Pass	Testing Complete
LW05372		Kitchen		Faucet	2.8	Pass	Testing Complete
LW05373		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05374		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05375	170C	Break Room Cafeteria		Faucet	1.4	Pass	Testing Complete
LW05376		Cafeteria	Next To Rm 170c	Cooler	<1.0	Pass	Testing Complete
LW05377	173	Office Band		Faucet	<1.0	Pass	Testing Complete
LW05378	190B	Concession	Across From Auditorium	Faucet	7.7	Pass	Testing Complete
LW05380	166	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05381	154	Health Room		Faucet	1	Pass	Testing Complete
LW05382	151	Work Room Office		Faucet	1.9	Pass	Testing Complete
LW05383	100	Office Office		Faucet	<1.0	Pass	Testing Complete
LW05384	155C	Work Room Counselor		Faucet	1	Pass	Testing Complete
LW05385		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW05386	142	English Office		Faucet	<1.0	Pass	Testing Complete
LW06462	G85	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06463	G85	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06464	G65	Weight Room	Next To	Cooler	<1.0	Pass	Testing Complete
LW06473	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06474	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06475	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06476	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06477	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06478	G02	Home Economics		Faucet	4.7	Pass	Testing Complete
LW06480	G15C	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06481	G15C	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06482	G44	Work Room		Cooler	<1.0	Pass	Testing Complete
LW06483	G59	Training Room		Faucet	2.4	Pass	Testing Complete
LW06484	244	Work Room		Faucet	<1.0	Pass	Testing Complete
LW06485	212	Hallway	Right Of	Cooler	<1.0	Pass	Testing Complete
M07583	G27	Work Room		Faucet	<1.0	Pass	Testing Complete
M07588	G55	Hallway	Next to G55 Football Office	Cooler	<1.0	Pass	Testing Complete
M07610	G65	Weight Room	Next to G65 Weight Rm	Cooler	<1.0	Pass	Testing Complete
M07612		Hallway	Next to Gym	Cooler	<1.0	Pass	Testing Complete
M07619	197C	Concession		Faucet	2.1	Pass	Testing Complete
M20409		Kitchen Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M20416		Kitchen Kitchen	Outside Wall	Faucet	<1.0	Pass	Testing Complete
M20417		Kitchen Kitchen	Outside Wall	Faucet	<1.0	Pass	Testing Complete
M20421		Kitchen	Serving Area	Faucet	2.3	Pass	Testing Complete
M20424	160B	Work Room Media Center		Faucet	1.4	Pass	Testing Complete
M20761		Hallway	Hall By 235 LTR 1 of 2	Cooler	<1.0	Pass	Testing Complete
M26345		Hallway	Next to Elevator and Rm 261 Storage	Cooler	<1.0	Pass	Testing Complete
M26350	261	Hallway	Between SBR Next to Rm 261 and Elevator	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion